

Mr. Jim Alexander
U.S. Steel - Gary Works
One North Broadway
Gary, IN 46402-3199

Re: 089-11953
First Administrative Amendment to
Minor Source Modification No. 089-10551-00121

Dear Mr. Alexander:

U.S. Steel - Gary Works was issued a Minor Source Modification, No. 089-10551-00121, on February 10, 1999, which allowed a change in the method of operation of an existing 400 ton per hour petroleum coke crusher to utilize the crusher as a secondary frozen coal crusher operating at the rate of 1200 tons per hour. An application to amend the minor source modification to allow the crusher to be utilized as a coal crusher without reference to frozen coal was received on February 29, 2000. Pursuant to 326 IAC 2-7-11, the Minor Source Modification is hereby amended as follows:

A.2. Emission Units and Pollution Control Equipment Summary, Page 3 of 16:

- (a) a change in the method of operating an existing 400 ton per hour petroleum coke crusher located inside the existing coal blending building to operate as a second ~~frozen~~ coal breaker at a rate of 1200 tons per hour. The petroleum coke crusher is a totally enclosed hammer mill.

Facility Description, Page 15 of 16:

a change in the method of operating an existing 400 ton per hour petroleum coke crusher located inside the existing coal blending building to operate as a second ~~frozen~~ coal breaker at a rate of 1200 tons per hour. The petroleum coke crusher is a totally enclosed hammer mill.

D.4 Visible Emissions, Page 15 of 16:

Pursuant to the New Source Performance Standards (NSPS), Part 60.250 through 60.254, Subpart Y, "Standards of Performance for Coal Preparation Plants", visible emissions from the petroleum coke crusher while in service as a ~~frozen~~ coal breaker shall not exceed 20% opacity.

During review of US Steel's amendment request, an error in rule applicability for particulate matter was discovered in the Minor Source Modification. Condition D.1 incorrectly references 326 IAC 6-3 as the rule limiting particulate matter emissions. Because US Steel is located in Lake County, 326 IAC 6-1 is the correct rule for limiting particulate matter emissions from this source. Therefore, the following change has been made to permit Condition D.1 (Page 15 of 16):

D.1 Particulate Matter Emission Limitations [326 IAC 6-1-2]

- ~~(a) Particulate matter (PM) emission from the petroleum coke crusher in service as a frozen coal breaker shall not exceed the allowable particulate matter emission rate of 79.97 pounds per hour as determined by the following equation:~~

$$E = 55.0 \times P^{0.75} - 40 \quad \text{where} \quad \begin{array}{l} E = \text{emission rate in pounds per hour} \\ P = \text{process weight rate in tons per hour} \\ P = 1200 \end{array}$$

- (a) **The petroleum coke crusher in service as a coal crusher shall not discharge into the atmosphere particulate matter in excess of 0.07 gram per dry standard cubic meter (g/dscm) (0.03 grain per dry standard cubic foot (dscf)).**
- (b) Any change or modification which may increase the potential to emit of PM or PM₁₀ to 25 or 15 tons per year or more from the equipment covered in this minor source modification must be approved by the Office of Air Management (OAM) before such change may occur.

All other conditions of the Minor Source Modification shall remain unchanged and in effect. Please attach a copy of the amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Rachel Meredith at (800) 451-6027, press 0 and ask for Rachel Meredith or extension 3-5691, or dial (317) 233-5691.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

Attachments

RLM

cc: File - Lake County
U.S. EPA, Region V
Lake County Health Department
Northwest Regional Office
Air Compliance Section Inspector - Rick Massoels
Compliance Data Section - Karen Nowak
Permit Tracking - Janet Mobley
Technical Support and Modeling - Michele Boner
TV File - 089-7663-00175

PART 70 MINOR SOURCE MODIFICATION OFFICE OF AIR MANAGEMENT

**U.S. Steel - Gary Works
One North Broadway
Gary, Indiana 46402-3199**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Minor Source Modification No.: 089-10551-00121	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: February 10, 1999

First Administrative Amendment No.: 089-11953 Pages Affected: Cover, 3, and 15	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

SECTION A

SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the emission units contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a steel mill.

Responsible Official: Jim Alexander
Source Address: One North Broadway, Gary, Indiana 46402
Mailing Address: One North Broadway, Gary, Indiana 46402
Phone Number: 219-888-3387
SIC Code: 3312
County Location: Lake
County Status: Nonattainment for ozone, PM₁₀ (City of Gary), and SO_x (City of Gary)
Source Status: Major Source, under PSD Program, Emission Offset Program, and Part 70 Program

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units and pollution control devices:

- (a) a change in the method of operating an existing 400 ton per hour petroleum coke crusher located inside the existing coal blending building to operate as a second coal breaker at a rate of 1200 tons per hour. The petroleum coke crusher is a totally enclosed hammer mill.

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because it is a major source, as defined in 326 IAC 2-7-1(22). This source has submitted its Part 70 (T-089-7663-00175) application on December 13, 1996. The equipment being reviewed under this permit shall be incorporated in the submitted Part 70 application.

SECTION D.5 FACILITY CONDITIONS

Facility Description [326 IAC 2-7-5(15)] a change in the method of operating an existing 400 ton per hour petroleum coke crusher located inside the existing coal blending building to operate as a second coal breaker at a rate of 1200 tons per hour. The petroleum coke crusher is a totally enclosed hammer mill.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1 Particulate Matter Emission Limitation [326 IAC 6-1-2]

- (a) The petroleum coke crusher in service as a coal crusher shall not discharge into the atmosphere particulate matter in excess of 0.07 gram per dry standard cubic meter (g/dscm) (0.03 grain per dry standard cubic foot (dscf).
- (b) Any change or modification which may increase the potential to emit of PM or PM₁₀ to 25 or 15 tons per year or more from the equipment covered in this minor source modification must be approved by the Office of Air Management (OAM) before such change may occur.

D.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this emission unit.

Compliance Determination Requirements

D.3 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this approval. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the particulate matter emission limits specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.4 Visible Emissions

Pursuant to the New Source Performance Standards (NSPS), Part 60.250 through 60.254, Subpart Y, "Standards of Performance for Coal Preparation Plants", visible emissions from the petroleum coke crusher while in service as a coal breaker shall not exceed 20% opacity.